



Interpretive Guidance Project: What We Know

CMMI User's Conference

November 18, 2003

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Topics

- Project Overview and Status
- Preliminary Report Summary
- Questions



Interpretive Guidance Objectives

To understand and address the issues that software organizations have when using CMMI

To allow current SW-CMM users to more easily upgrade to CMMI

To eliminate as many perceived barriers to CMMI adoption as possible

To make CMMI adoption easy

The screenshot shows a Mozilla browser window with the title "CMMI Interpretive Guidance Project - Mozilla {Build ID: 2002082606}". The address bar shows the URL "http://www.sei.cmu.edu/cmmi/adoption/interpretiveguidance.html". The page content includes the Carnegie Mellon Software Engineering Institute logo and navigation links: Home, Search, Contact Us, Site Map, What's New. A sidebar menu lists "MANAGEMENT PRACTICES" with links to CMMI Main Page, General, Models, Training, Adoption, Appraisals, Background, and Contact Us. The main content area is titled "CMMI® Interpretive Guidance Project" and includes links for Introduction, Interpretive Guidance Events, Birds-of-a-Feather Sessions, SPIN Presentations, Web-Based Questionnaire, Detailed Interview Sessions, Appraisal Feedback, and For More Information. The date "February 19, 2003" is displayed. The text explains that since the release of Version 1.1 of the Capability Maturity Model® Integrated (CMMI®) Product Suite, the Software Engineering Institute (SEISM) has been working to aid the adoption of CMMI. The project was formed to collect information about how CMMI is being utilized by software, information technology (IT), and information systems (IS) organizations. It also states that based on the information gathered, the project will determine what guidance or interpretation of CMMI model best practices are warranted to help these organizations upgrade or adopt CMMI for their process improvement programs.



Project Status Highlights - Phase I

Phase I activities have been completed.

Collected comments from **Birds-of-a-Feather sessions** in conjunction with conferences and SPIN meetings

Formed **expert group**

Received responses from **Web-based questionnaire**

Received very limited feedback from **SCAMPISM appraisals**

Performed **preliminary analysis** of issues

Released Interpretive Guidance **Preliminary Report** (available on CMMI Website)



Project Status Highlights - Phase II

Purpose is to analyze issues to determine:

- **if** interpretive guidance is needed
- **where** interpretive guidance is appropriate
- **what** form interpretive guidance will take

Phase II activities just getting started.

At a minimum we will

- perform **detailed analysis** of the issues
- conduct **detailed interviews** to investigate issue areas further
- meet with **groups at SEI** to share analysis and to understand how their activities support/address identified issues
- present **preliminary data at conferences** to make sure that the data is correct and our analysis is accurate
- produce a **final report** to document our findings and conclusions
 - interpretive guidance for software organizations
 - summary and conclusions from this task



Preliminary Report

Describes the data-collection activities from both Birds of a Feather (BoF) sessions and Web-based questionnaire efforts

Includes summaries of the data collected through August 2003



BoF Sessions Attended

CMMI Users Group
ICSPI Conference
New York City SPIN
QAAM/QAI Conference on Managing Software
Excellence PROFES 2002
Acquisition of SW-Intensive Systems
SEPG 2003
Southern California SPIN meeting
San Diego SPIN meeting
bITa Europe Conference
NDIA Transition Workshop
STC 2003
European SEPG Conference
Practical Software Measurement



Web-Based Questionnaire

Notified ~7,000 people

- 4,000 people with direct internet access
- 3,000 people that the questionnaire was available
- placed an announcement on the SEI Web site

The numbers of responses received for the sections of the questionnaire were:

- 668 Background and Context (required section)
- 587 Global Issues
- 339 Generic Goals and Generic Practices
- 182 Specific Process Areas



Background

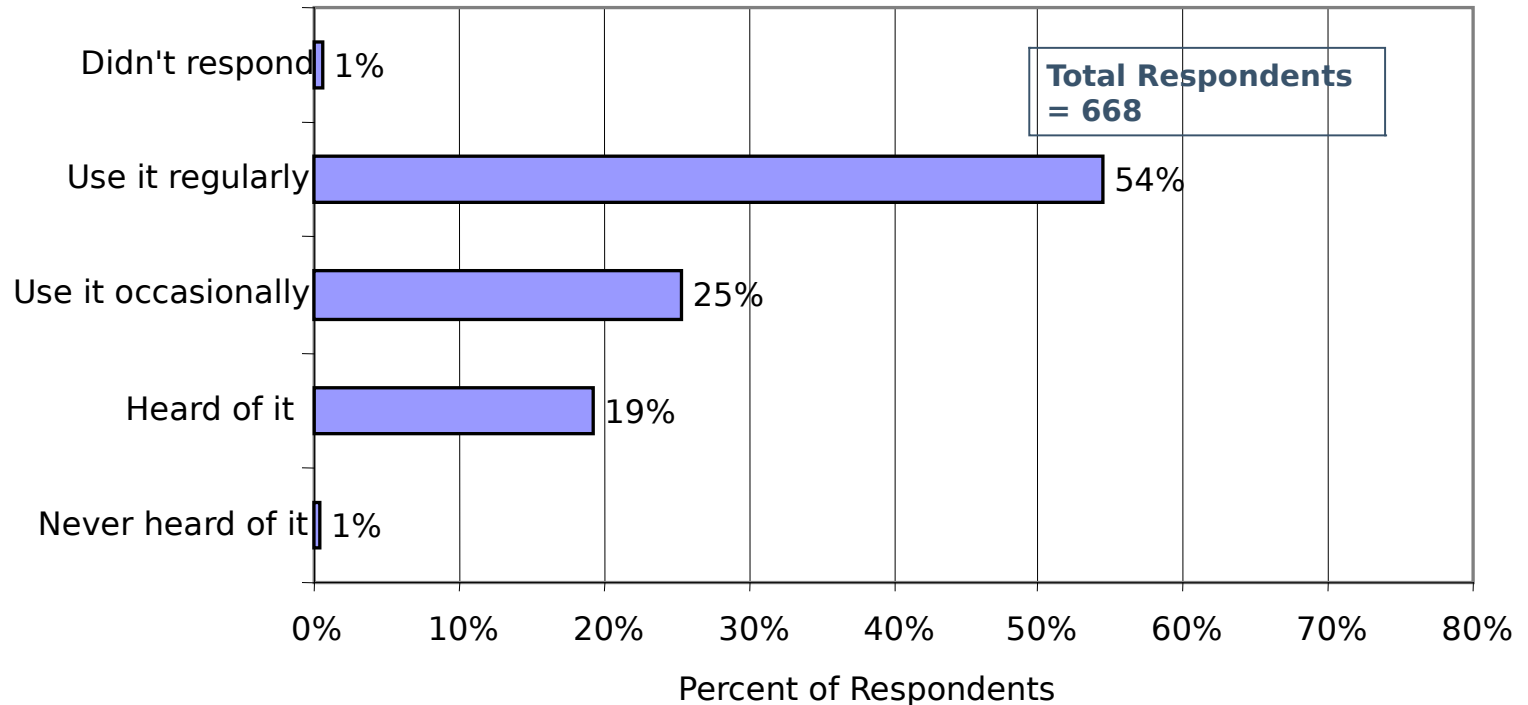
Nine questions were asked to understand the background of the respondent

Some questions were specific to the person filling out the questionnaire

Other questions were providing background information about the organization

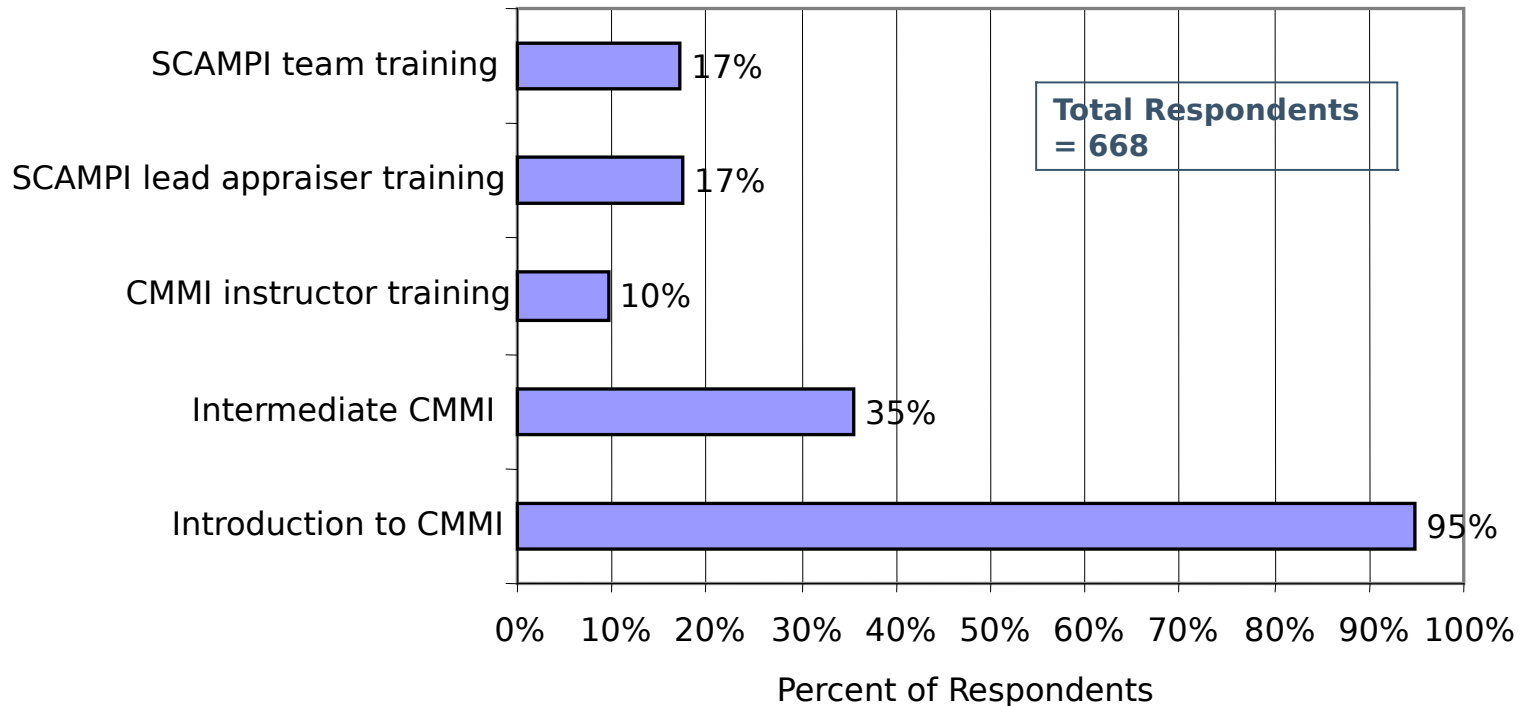
Highlights are presented in the following slides

How would you best describe your familiarity with CMMI?



What if any CMMI training have you received?

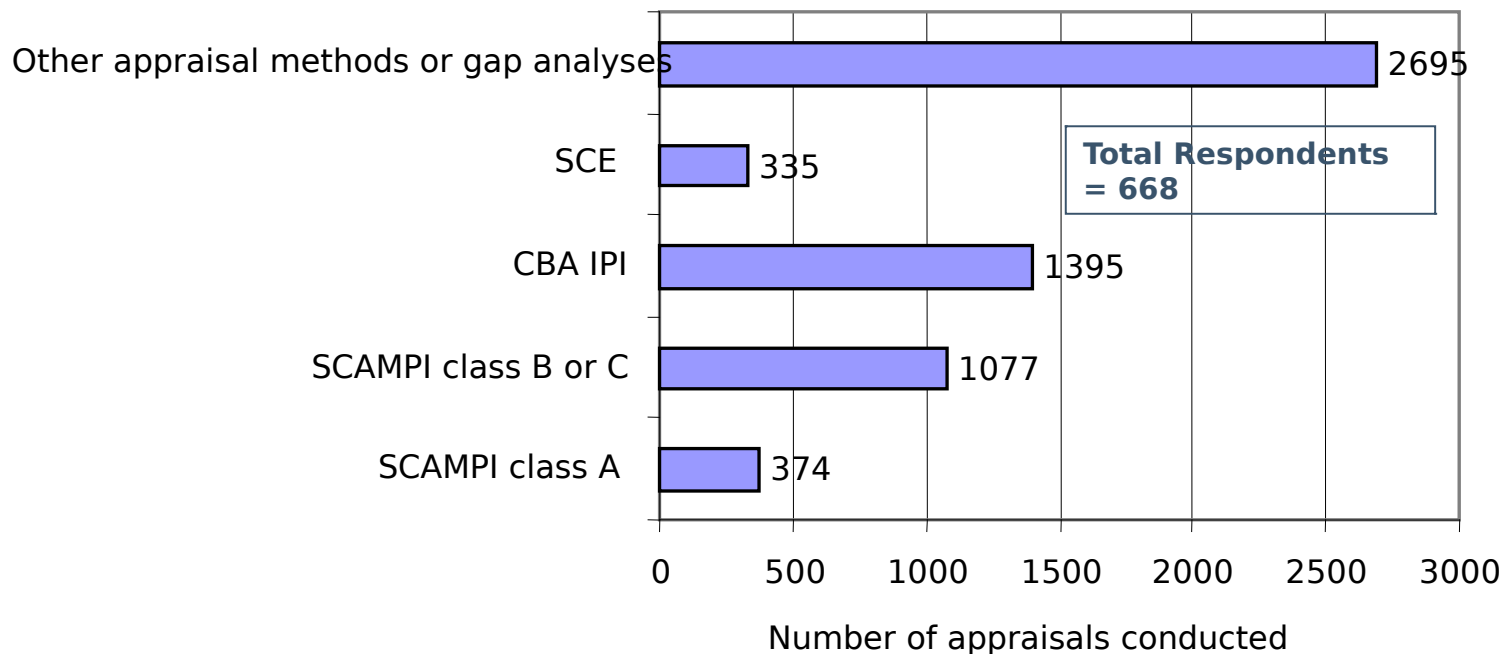
(Multiple responses were permitted)



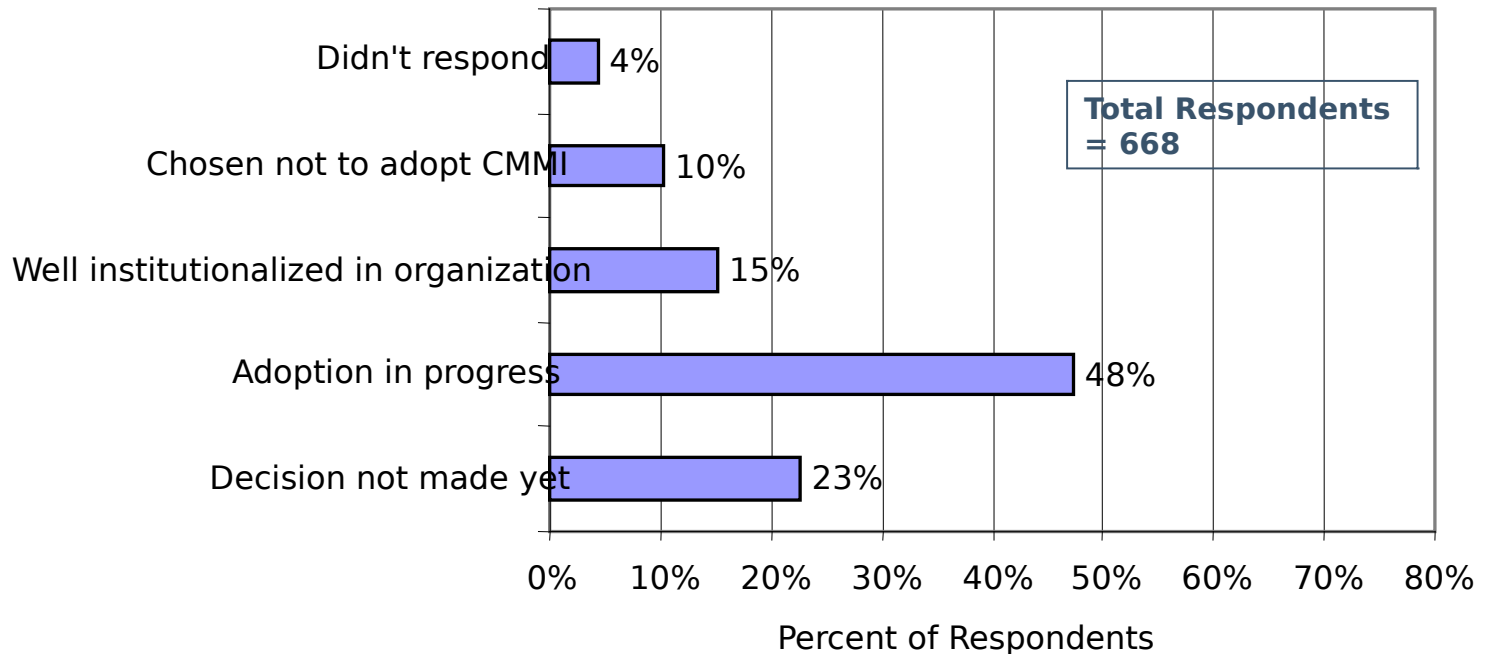


Approximately how many appraisals, if any, have been conducted in your organization since June 2000?

(Multiple responses were permitted)

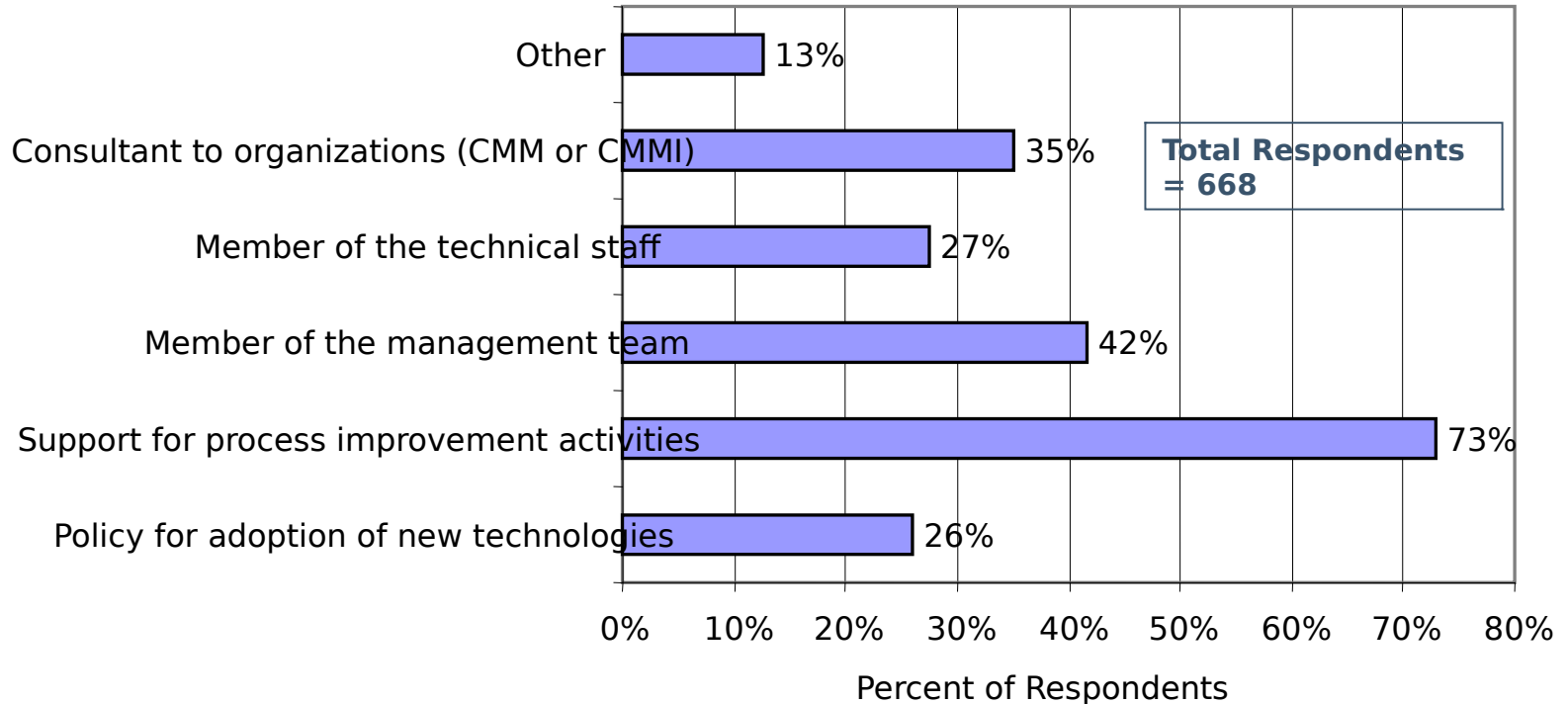


Has your organization made a decision about adopting CMMI?

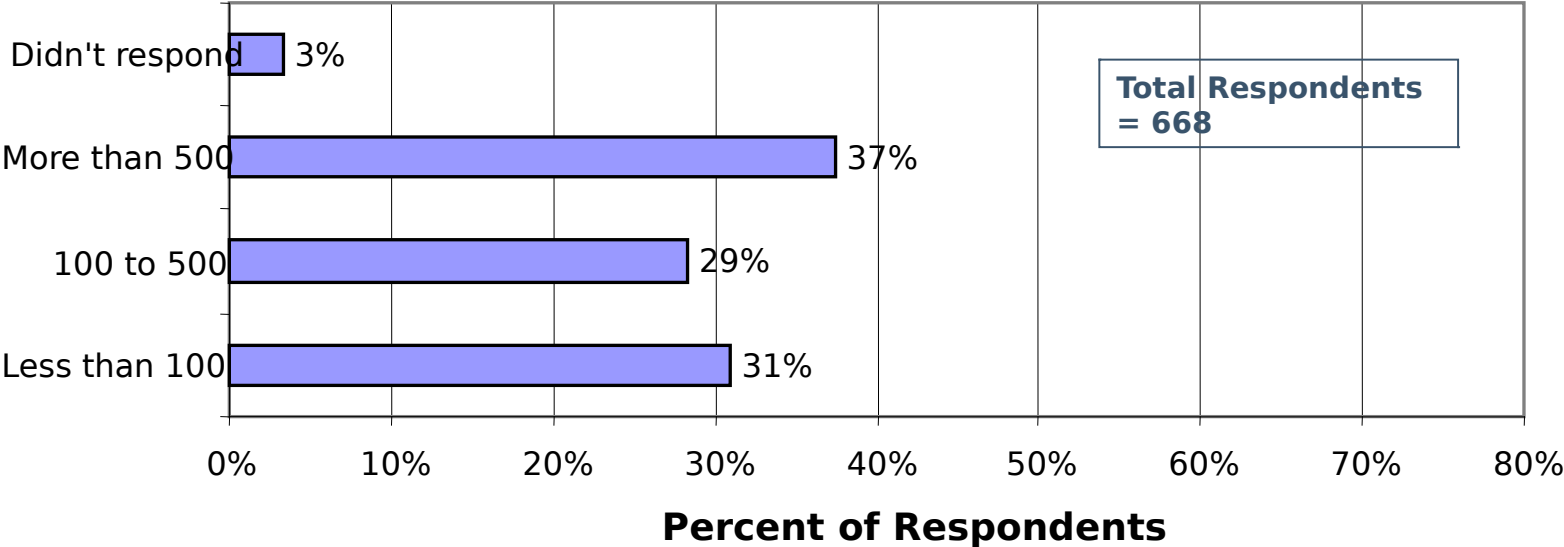


What is your personal role in process improvement?

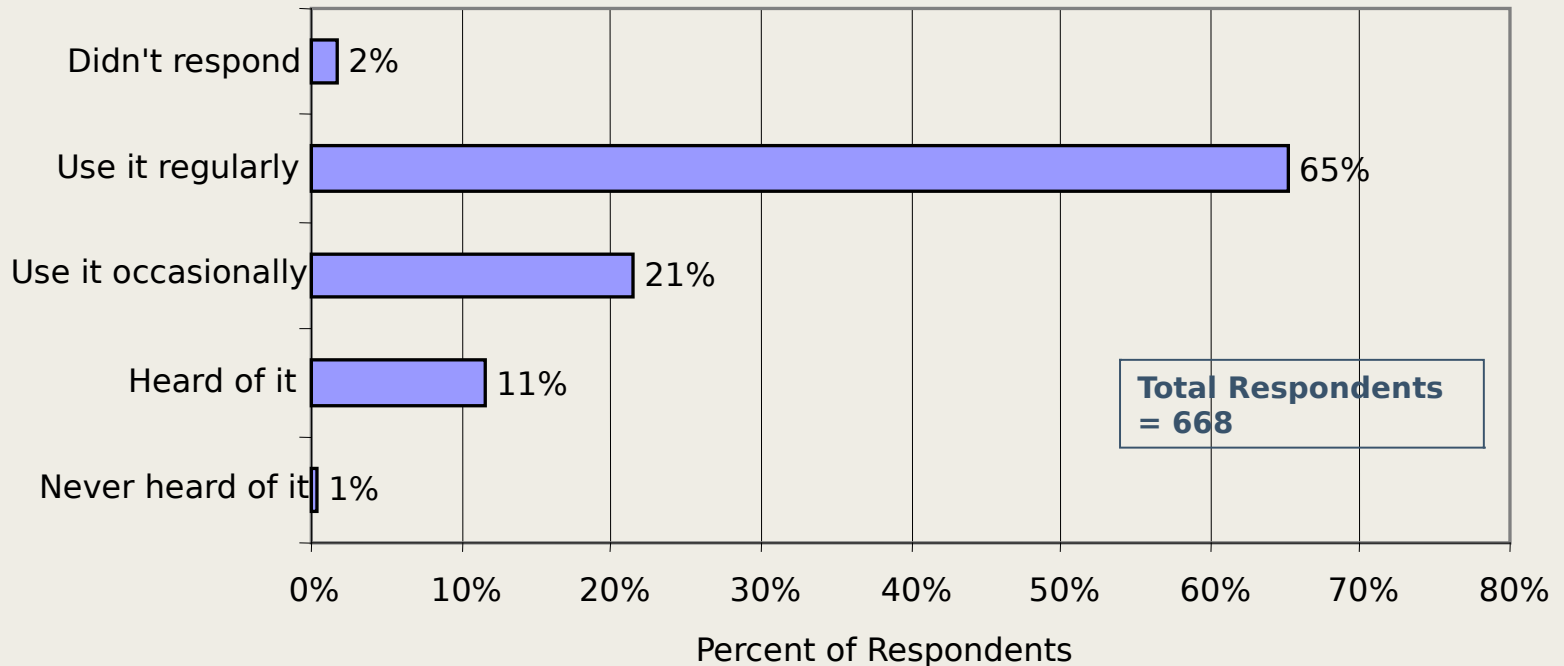
(Multiple responses were permitted)



Approximately how many full-time equivalent (FTE) employees does your organization employ who are primarily engaged in the development, maintenance, or acquisition of software or software-intensive systems?



How would you best describe your familiarity with the Software CMM?





Global Issues

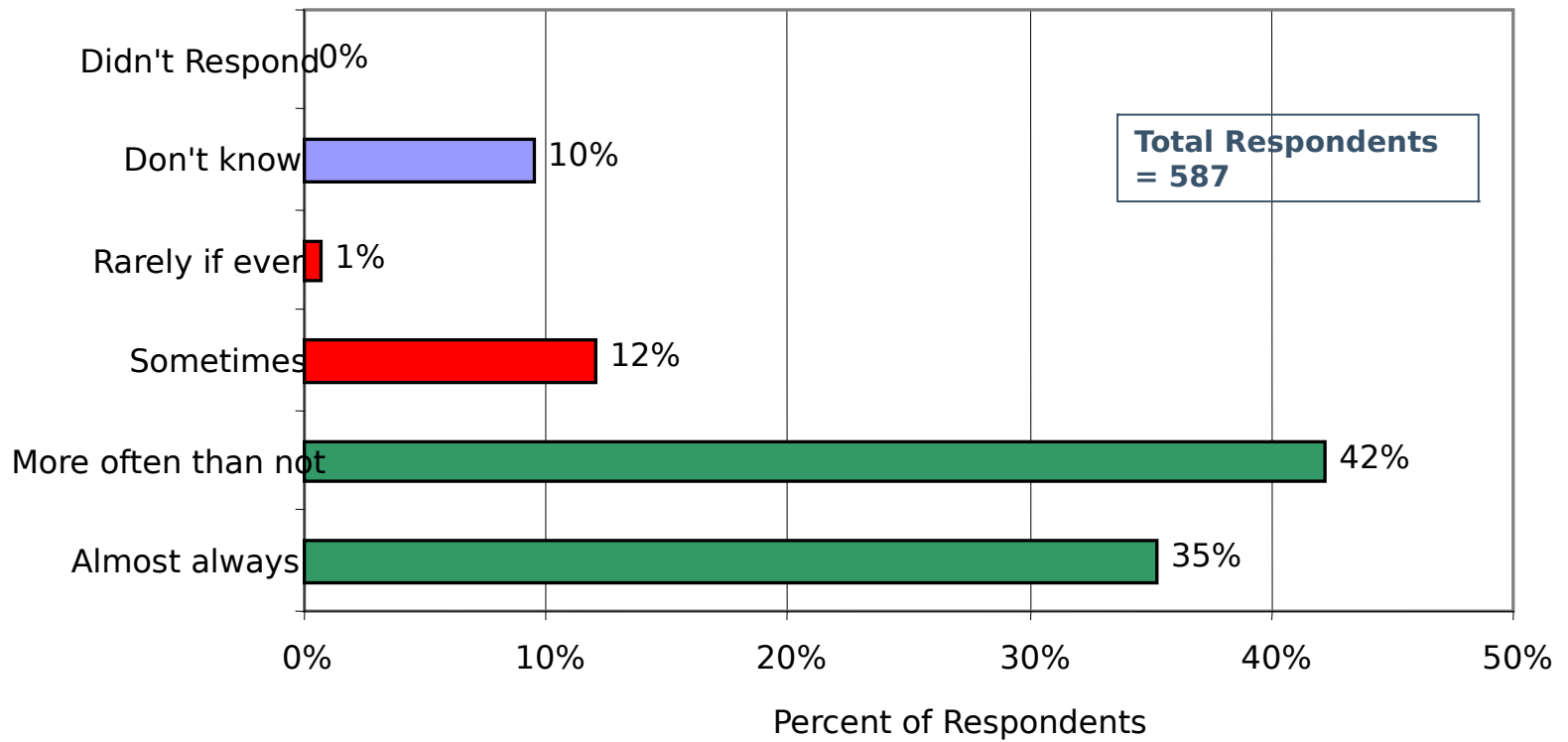
Thirteen questions were asked

General questions that address CMMI adoption

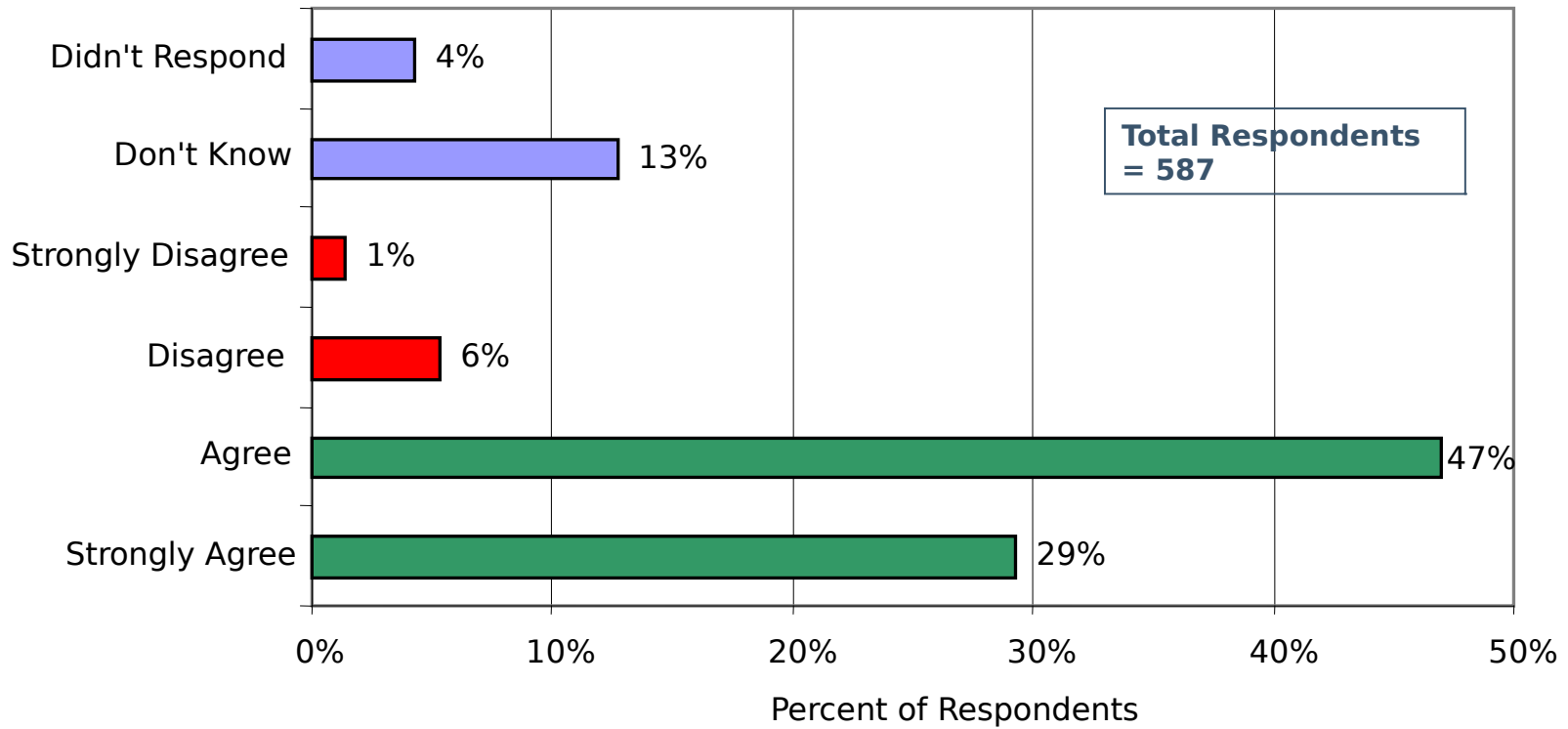
- CMMI concepts or terminology
- model representations
- costs
- ROI

Highlights are presented in the following slides

In your opinion, is CMMI adequate for guiding process improvement?

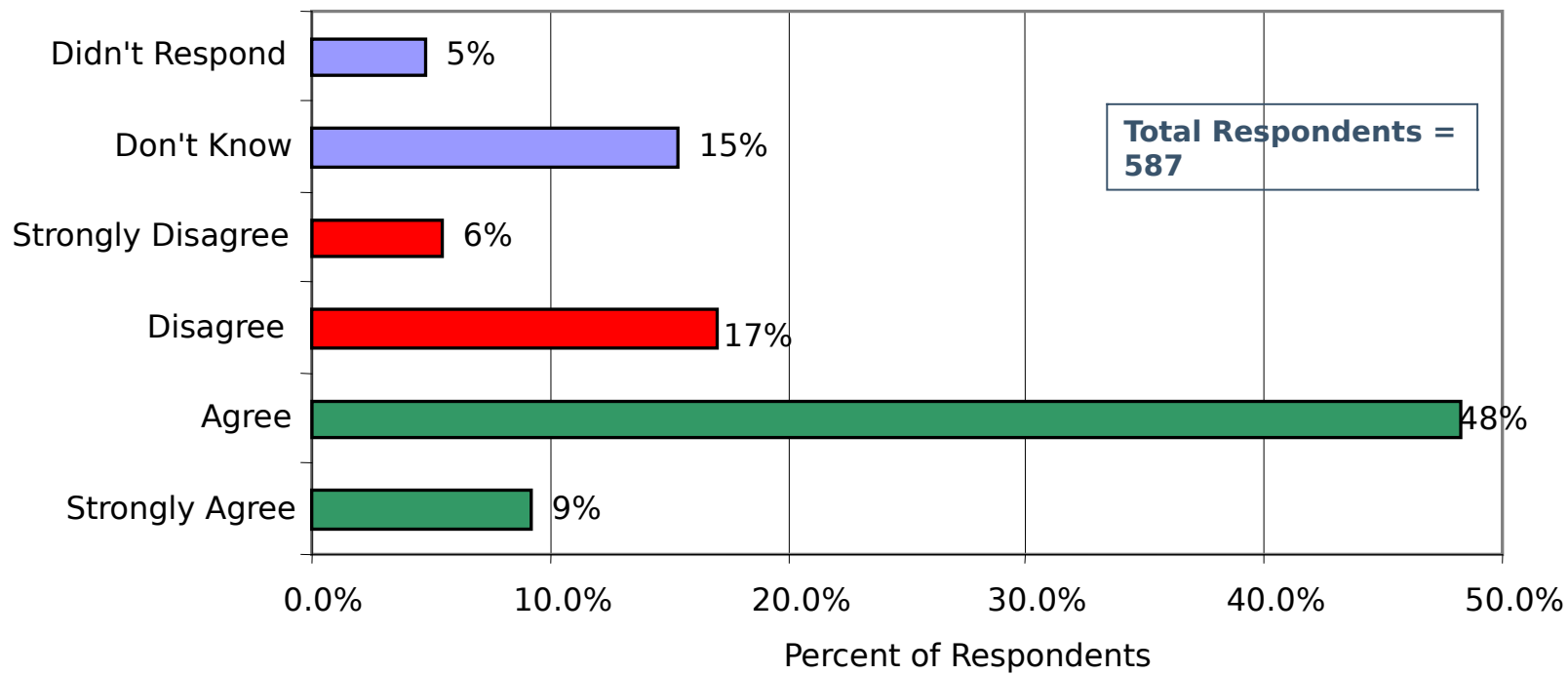


Adopting CMMI will help us to leverage our earlier investments in process improvement.

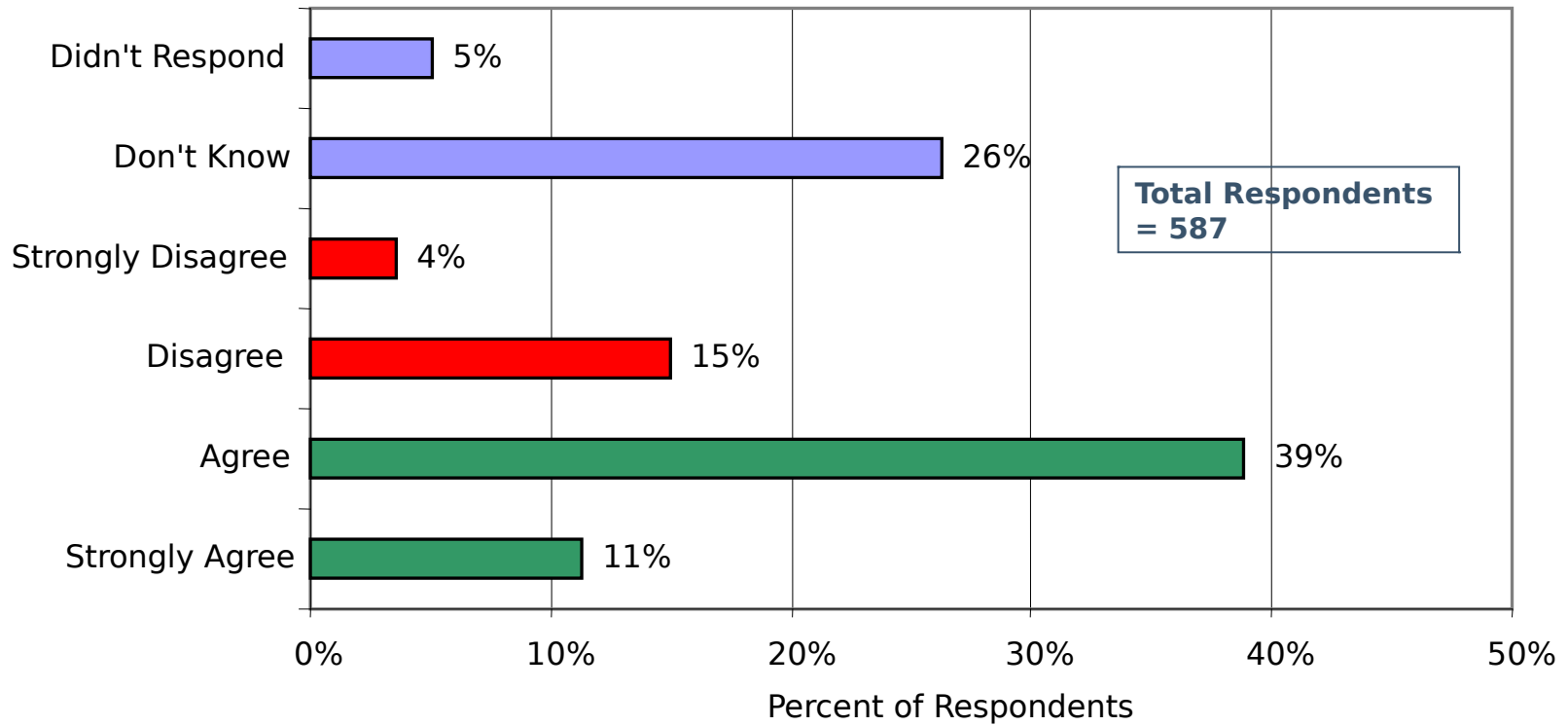




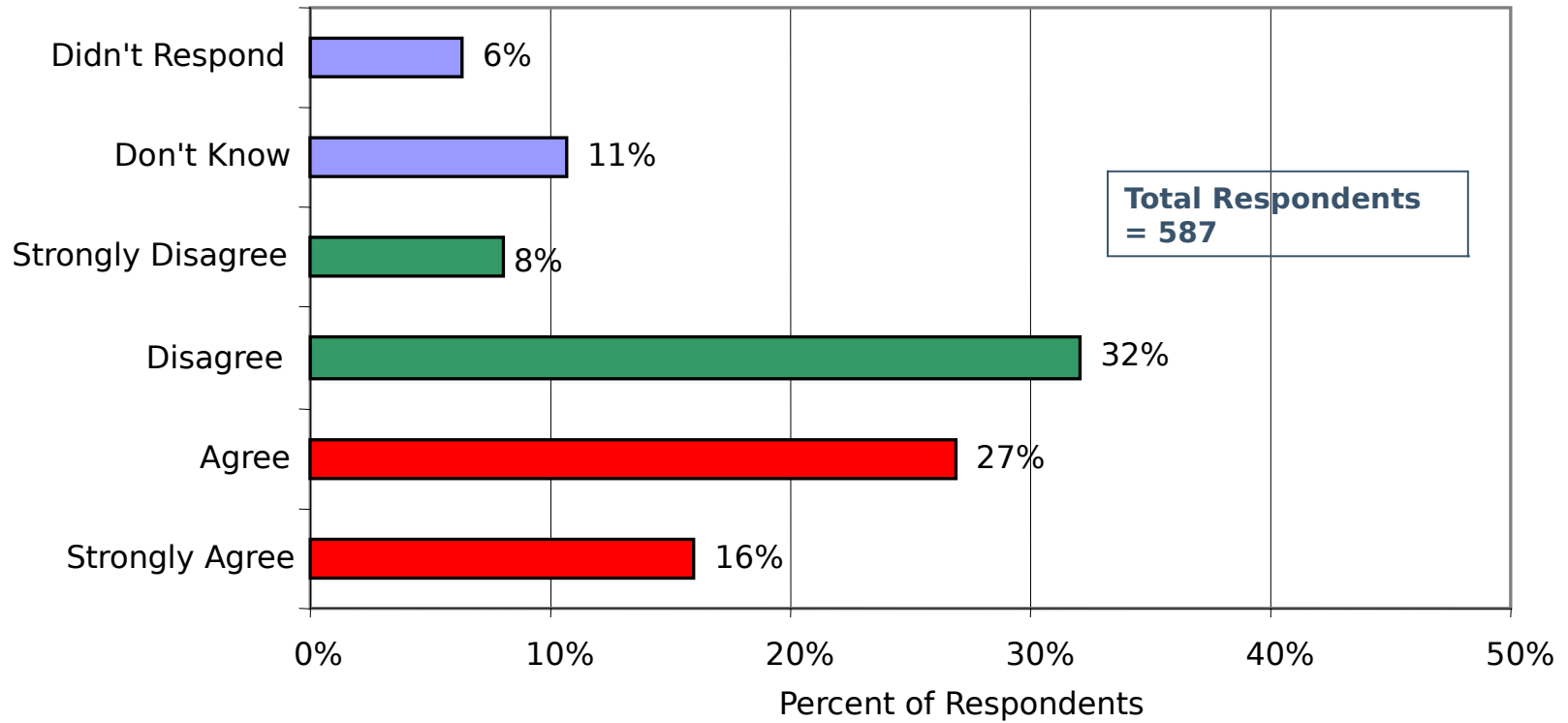
Existing CMMI training courses, guidance documents, web resources, and other process assets are adequate for our purposes.



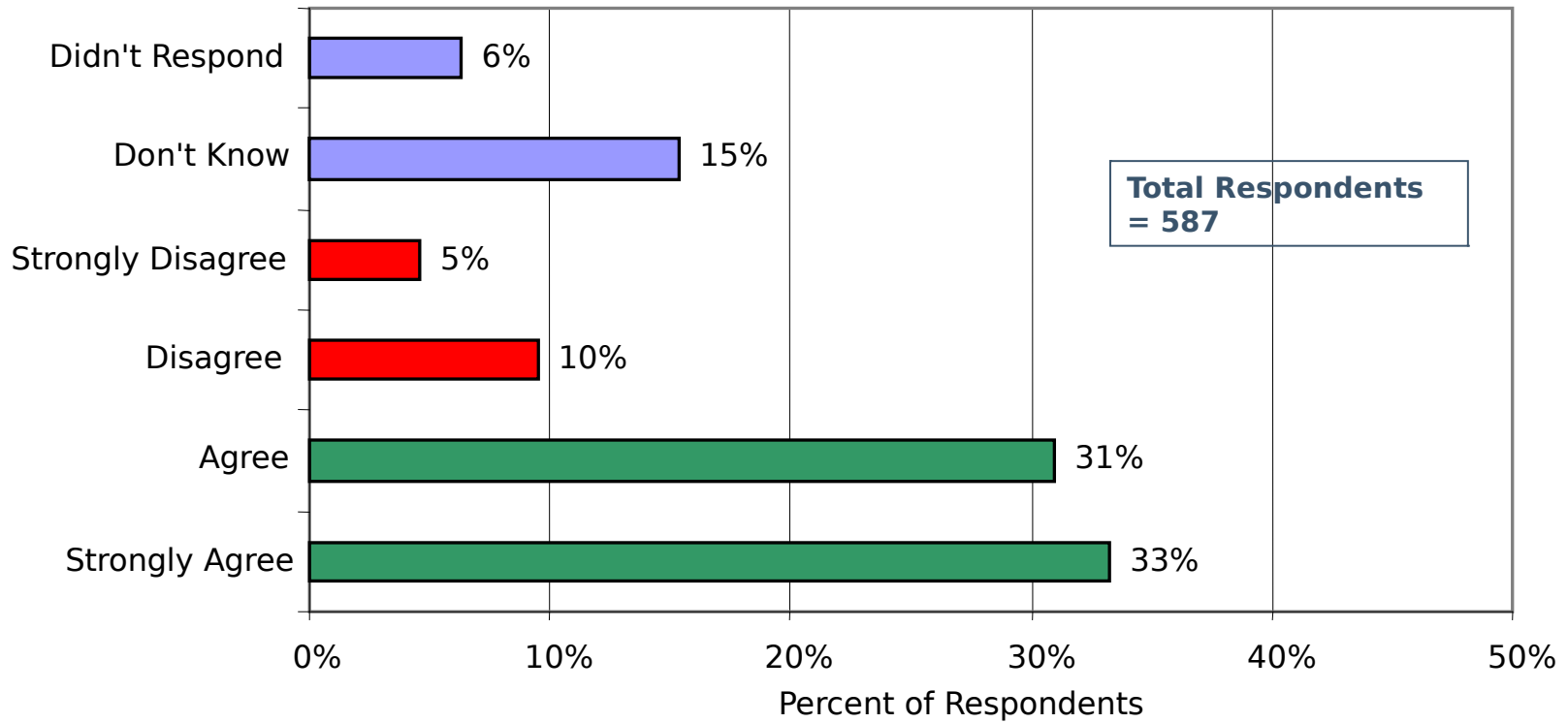
Existing CMMI appraisal methods are suitable for our organization's needs.



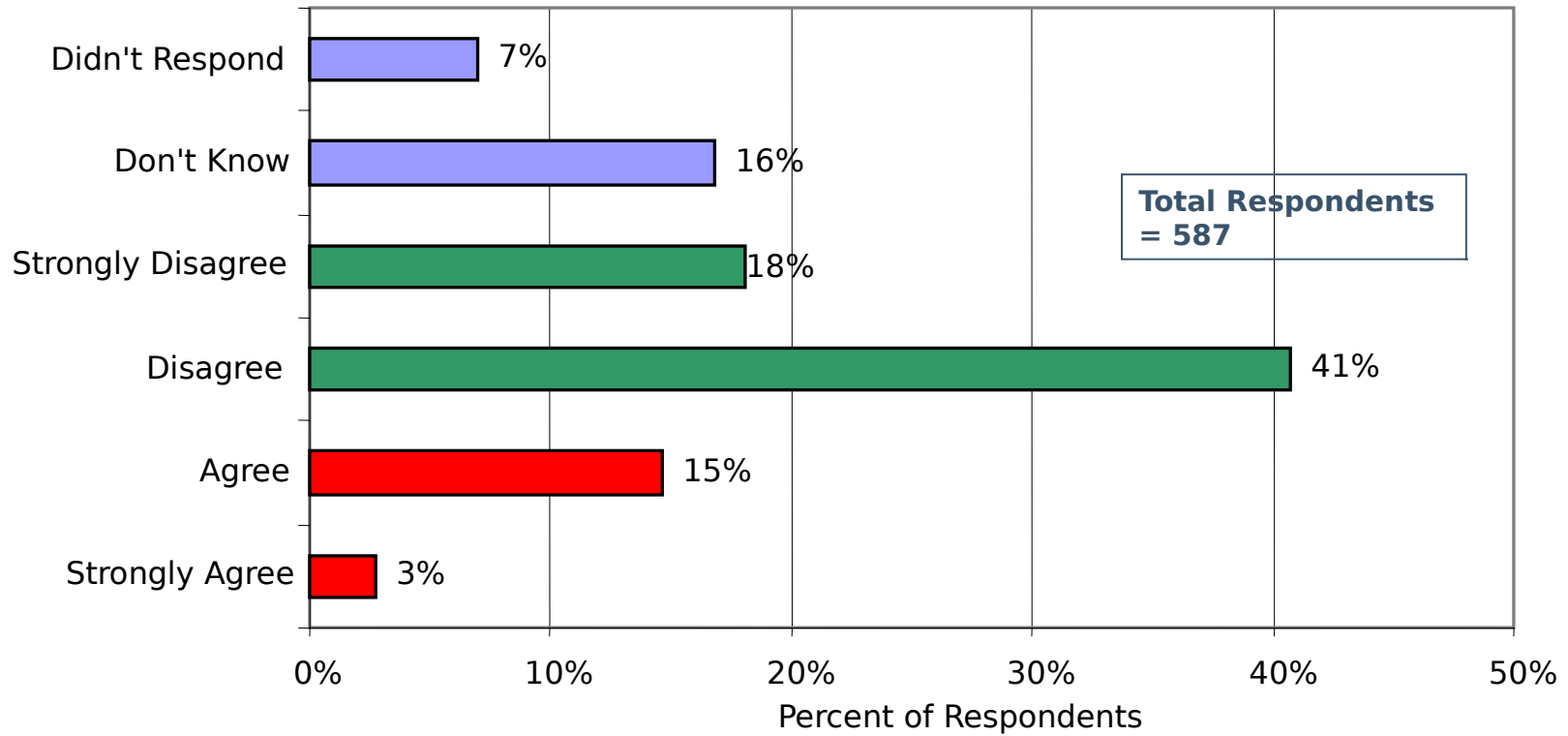
The cost of adopting CMMI is impeding the adoption of CMMI in our organization.



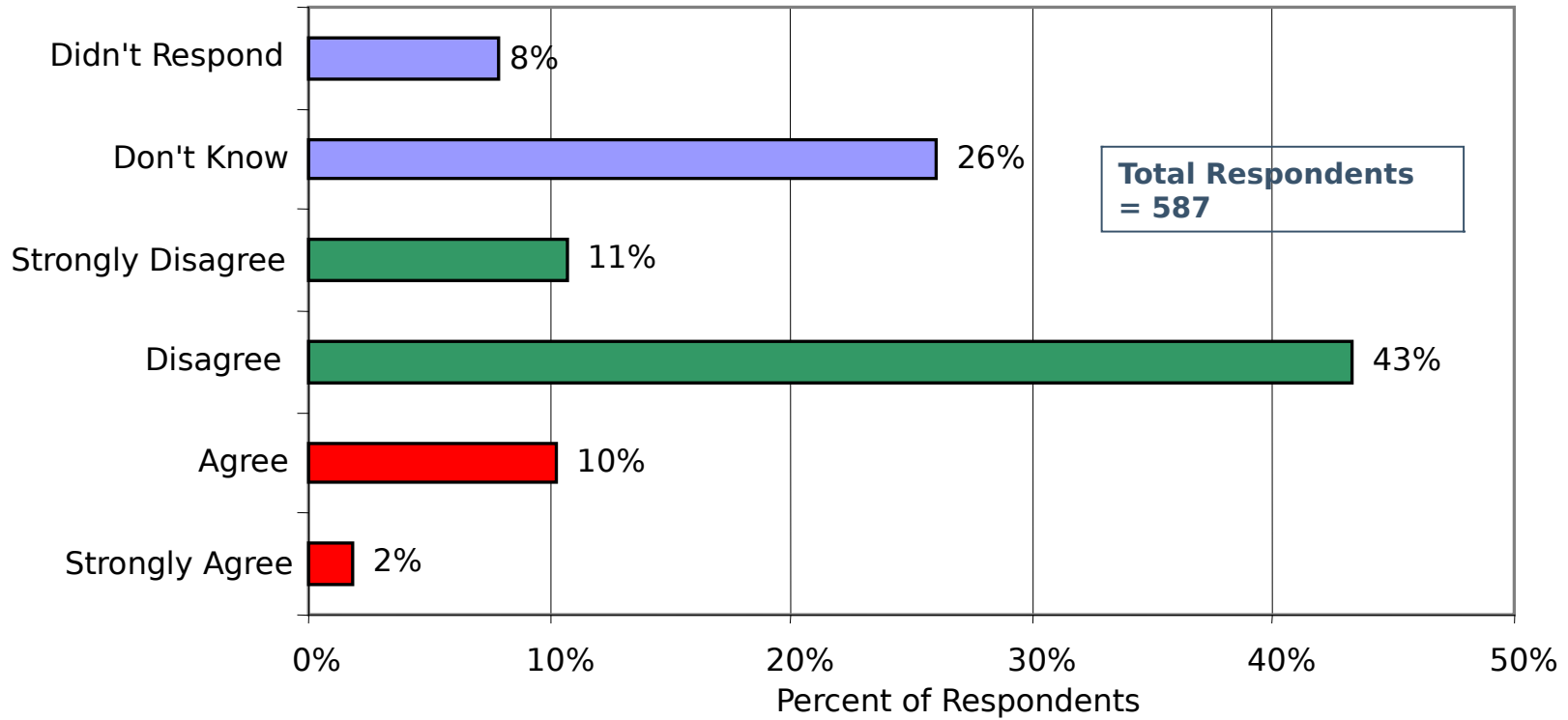
Including both systems engineering and software in a single model has been a help for us.



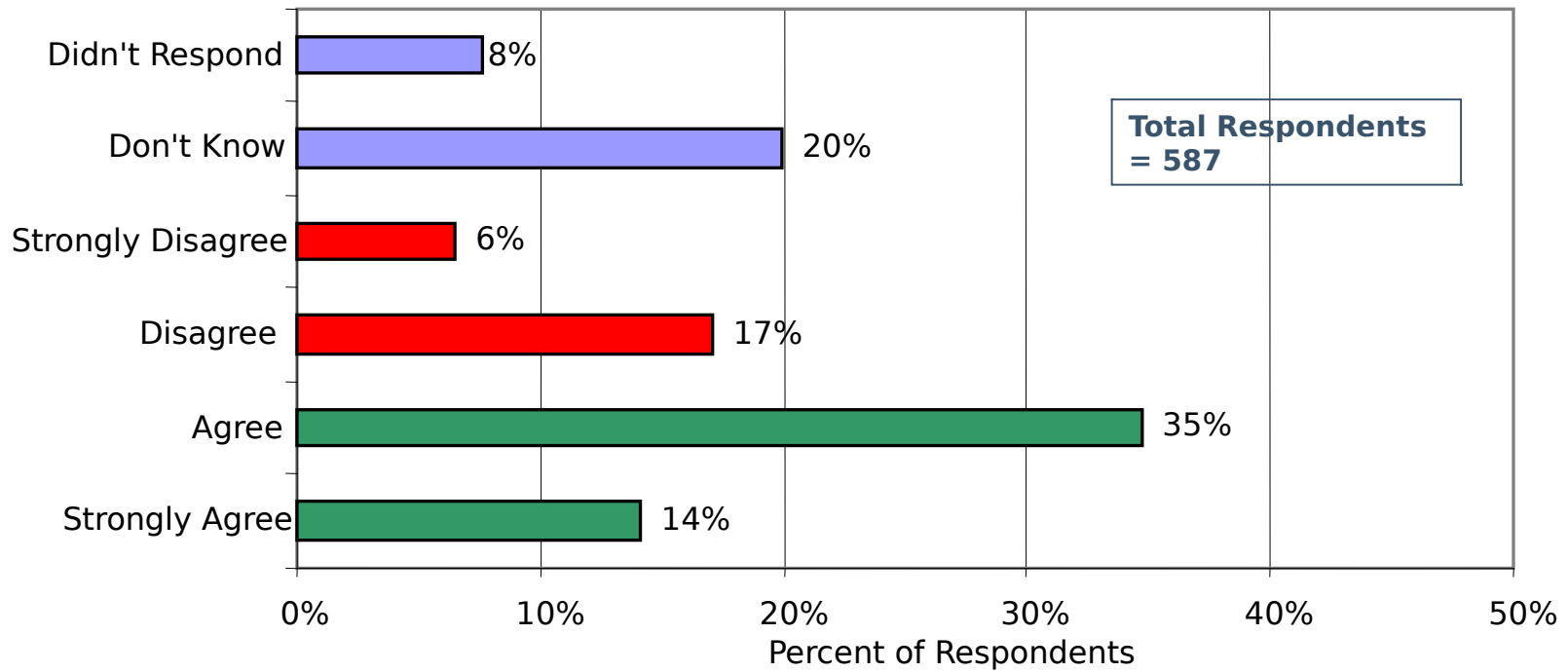
We have had difficulty in mapping our processes to the CMMI.



We have had difficulty tracking the changes and additions from models that we have previously used.

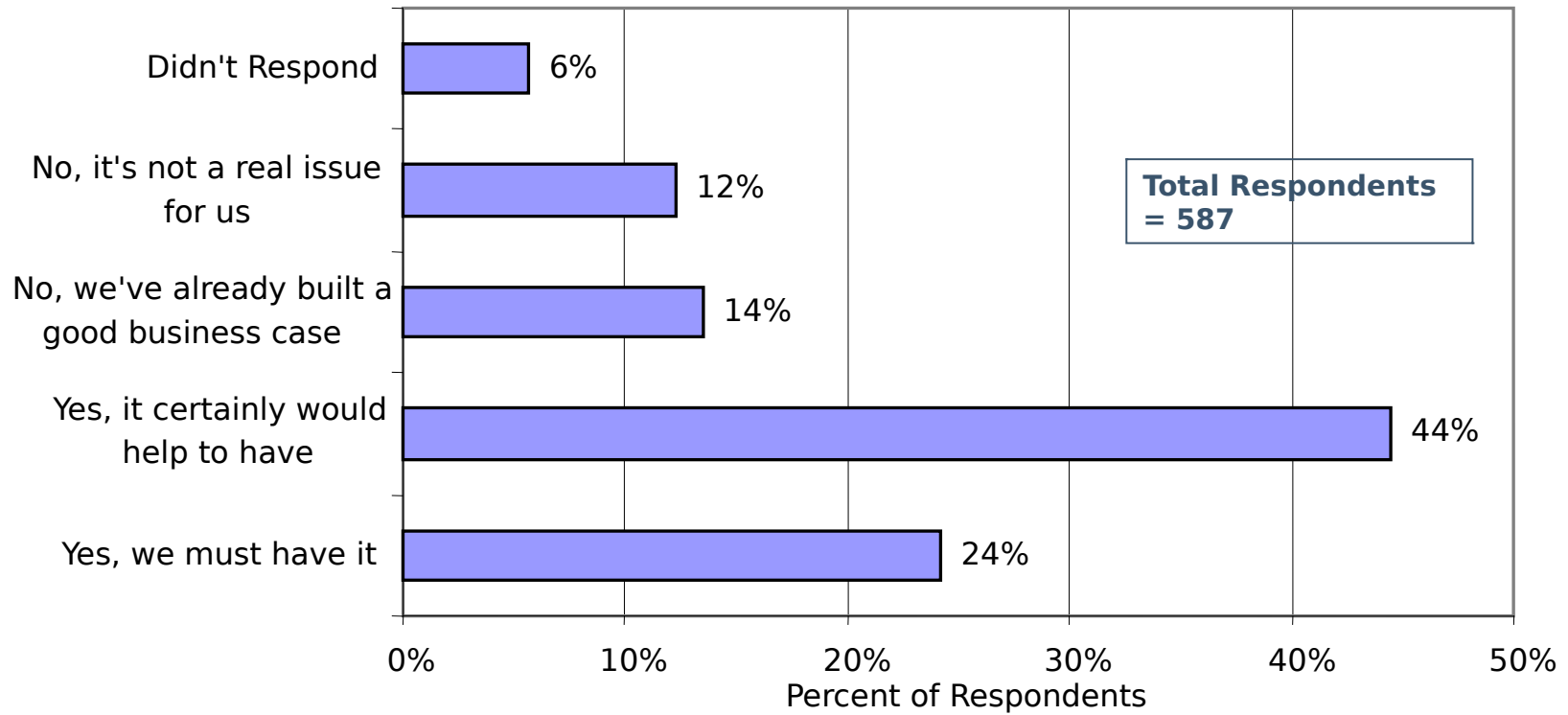


Having a choice between the two model representations (staged or continuous) and variations (SW, SE, IPPD, SS) has been helpful for us.





Does your organization need ROI or other quantitative evidence to help make the business case for adopting CMMI?





Conclusions

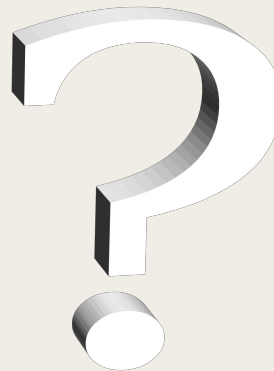
The responses were overwhelmingly positive.

Much of the data collected is not unique to commercial software, IT, and IS organizations. Similar data was reported by organizations in disciplines such as systems engineering and acquisition.

We still need to conduct our detailed analysis.

Copies of the report are available on the CMMI Website at <http://www.sei.cmu.edu/cmmi/>.

Questions





For More Information About CMMI

Go to CMMI Web site:

<http://www.sei.cmu.edu/cmmi>

<http://seir.sei.cmu.edu>

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